① 
$$x^{2}-5x+6=0$$

$$a = 1 \atop b = -5 \atop c = 6$$

$$x = -b \pm \sqrt{b^{2}-4ac}$$

$$x = -(-5) \pm \sqrt{(-5)^{2}-4\cdot1\cdot6} = 5 \pm \sqrt{25-16} = 2$$

$$-5 \pm \sqrt{9} = -5 \pm 3$$

$$2 = -1$$

$$x_{1} = -1$$

$$x_{2} = -4$$

2 
$$x^{2}+x-6=0$$

$$a = 1 \atop b = 1 \atop c = -6$$

$$x = -b \pm \sqrt{b^{2}-4ac}$$

$$x = -1 \pm \sqrt{1^{2}-4\cdot1\cdot(-6)} = -1 \pm \sqrt{1+24} = 2$$

$$= -1 \pm \sqrt{25} = -1 \pm 5$$

$$= -1 \pm \sqrt{25} = -1 \pm 5$$

$$= -1 \pm \sqrt{25} = -3$$

$$x = -1 \pm \sqrt{25} = -3$$